



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KATCH® 900
Reference Number: AST10013
Date: May 2, 2006

Company Information:

ICL PERFORMANCE PRODUCTS LP

622 Emerson Road - Suite 500
St. Louis, Missouri 63141

Emergency telephone: In USA call CHEMTREC: 1 800 424 9300
In Canada call CANUTEC: 1 613 996 6666

General Information: +1 800 244 6169 (Worldwide)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>
Sodium Tripolyphosphate	7758-29-4
Sodium Hexametaphosphate	68915-31-1

This product may contain as trace by-products:

Tetrasodium Pyrophosphate	7722-88-5
Sodium Trimetaphosphate	7785-84-4

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: White powder, granules, or glass plates with no odor

CAUTION!
MAY CAUSE RESPIRATORY TRACT IRRITATION

POTENTIAL HEALTH EFFECTS

LIKELY ROUTES OF EXPOSURE: Skin contact and inhalation

EYE CONTACT: No more than slightly irritating based on toxicity studies of the components. The dry powder may cause foreign body irritation in some individuals.

SKIN CONTACT: No more than slightly toxic or irritating based on toxicity studies of the components. Prolonged contact with the dry powder may cause drying or chapping of the skin.

INHALATION: This product may cause coughing, chest tightness, runny nose, chest pain, and burning throat based on the physical properties of TSPP.

ICL Performance Products LP Material Safety Data Sheet

Material: Katch® 900

Page 2 of 6

Reference No.: AST10013

May 2, 2006

INGESTION: No more than slightly toxic if swallowed based on studies of the components. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Swallowing large amounts may cause abdominal discomfort and diarrhea.

Refer to Section 11 for toxicological information.

4. FIRST AID MEASURES

IF IN EYES OR ON SKIN, immediate first aid is not likely to be required. However, this material can be removed with water. Remove material from eyes, skin and clothing. Wash heavily contaminated clothing before reuse.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

IF SWALLOWED, immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not combustible

HAZARDOUS PRODUCTS OF COMBUSTION: Not applicable

EXTINGUISHING MEDIA: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

6. ACCIDENTAL RELEASE MEASURES

In case of spill, sweep, scoop or vacuum and remove and place in containers. If possible, complete cleanup on a dry basis. After all practical dry cleanup has been done, flush residual spill area with water.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

7. HANDLING AND STORAGE

HANDLING

Avoid breathing dust.
Keep container closed.
Use only with adequate ventilation.

Emptied container retains product residue. Observe all labeled safeguards until container is destroyed.

STORAGE: Store in a cool, dry place to maintain product performance.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY PROTECTION: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the

ICL Performance Products LP Material Safety Data Sheet

Material: Katch® 900

Page 3 of 6

Reference No.: AST10013

May 2, 2006

respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134.

VENTILATION: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

AIRBORNE EXPOSURE LIMITS:

PRODUCT NAME/COMPONENT:	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
KATCH FISH Phosphate *	Not established	Not established
Sodium tripolyphosphate *	Not established	Not established
Sodium hexametaphosphate *	Not established	Not established
Sodium trimetaphosphate *	Not established	Not established
Tetrasodium pyrophosphate	#	

* OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

<u>OSHA PEL</u>	<u>ACGIH TLV</u>
15 mg/m ³ (total dust) 8-hr. TWA	10 mg/m ³ (inhalable) 8-hr. TWA
5 mg/m ³ (respirable) 8-hr. TWA	3 mg/m ³ (respirable) 8-hr. TWA

Contains Tetrasodium Pyrophosphate which has the following airborne exposure guidelines:

<u>State</u>	<u>Standard</u>	<u>Limit</u>
Australia	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Belgium	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Denmark	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Finland	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA, 3 mg/m ³
France	Occupation Exposure Limit	VME 5 mg/m ³
Norway	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA
Switzerland	Occupation Exposure Limit	MAK – week 5 mg/m ³
United Kingdom	Occupation Exposure Limit	5 mg/m ³ 8-hr TWA
United States	Occupation Exposure Limit	5 mg/m ³ 8-hr. TWA

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder, granules, or glass plates
Odor:	None
pH: approx.	9.6 (as a 1% solution @ 25 degrees C))
Melting point:	STPP begins to melt incongruently @ 552 degrees C, completely melted @ 622 degrees C SHMP: 628 degrees C
Bulk Density:	40 (lb./cu. ft.)
Solubility in Water:	Complete

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

ICL Performance Products LP Material Safety Data Sheet

Material: Katch® 900

Page 4 of 6

Reference No.: AST10013

May 2, 2006

STABILITY: Product is stable under normal conditions of storage and handling.

MATERIALS TO AVOID: None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

The dry powder may cause foreign body irritation in some individuals. Excessive inhalation of dust may be annoying and can mechanically impede respiration. The high alkalinity of TSPP may cause upper respiratory tract irritation. Prolonged contact with the dry powder may cause drying or chapping of the skin.

This product has not been tested as a whole. Data from laboratory studies conducted by ICL Performance Products LP and from the scientific literature with the components are summarized below:

Sodium Tripolyphosphate

Single-dose acute toxicity studies indicate that this material is practically nontoxic orally (rat) and practically nontoxic after skin application (rabbit). It is slightly irritating to rabbit eyes and nonirritating to rabbit skin.

Rats fed this material in their diet for two years exhibited decreased growth, increased kidney/body weight ratios, and kidney changes. No birth defects were noted in rabbits given this material orally during pregnancy. No effects were seen on the ability of male and female rats to reproduce when fed this material for 3 successive generations. This material has generally produced no genetic changes in a variety of standard tests using animals and animal or bacterial cells. Genetic changes were reported in a standard test using yeast cells.

Sodium Trimetaphosphate

Single-dose acute toxicity studies indicate that this material is practically nontoxic orally (rat). It is slightly irritating to rabbit eyes and nonirritating to rabbit skin.

Rats fed this material in their diet for one month showed decreased growth, increased kidney-to-body weights and slight kidney changes. Rats fed this material for two years also showed decreased weight gain, as well as blood changes and increased mortality. No increase in tumors was reported. No adverse effects in reproductive capacity were reported in a multigeneration study using rats fed this material.

The following components have been defined as a hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Sodium Hexametaphosphate

Single-dose acute toxicity studies indicate that this material is practically nontoxic orally (rat) and practically nontoxic after skin application (rabbit). It is slightly irritating to rabbit eyes and nonirritating to rabbit skin.

Rats fed sodium hexametaphosphate in their diet for one month showed decreased growth, increased kidney, lung and spleen weight, and kidney damage. Rats fed this material for two years also showed decreased weight gain, increased kidney weight, and kidney changes. No increase in tumors was reported. No adverse effects in reproductive capacity were reported in a multigeneration study using rats fed this material.

Tetrasodium Pyrophosphate

ICL Performance Products LP Material Safety Data Sheet

Material: Katch® 900

Page 5 of 6

Reference No.: AST10013

May 2, 2006

Oral - rat LD50:	3,770 mg/kg; slightly toxic
Dermal - rabbit LD50:	> 7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit:	43.0/110.0; extremely irritating
Skin Irritation - rabbit (24-hr exp.):	0.0/8.0; non-irritating

Rats fed tetrasodium pyrophosphate in their diet for four months showed a reduced weight gain, urinary changes, increased organ-to-body weight ratios, and slight kidney damage. No birth defects were reports in rabbits, hamsters, mice or rats given this material orally during pregnancy. Tetrasodium pyrophosphate produced no genetic changes in standard tests using bacterial and yeast cells.

12. ECOLOGICAL INFORMATION

ICL Performance Products LP has not conducted environmental toxicity studies with this material, and no data was retrieved in a search of the available scientific literature. Available data for components suggest that this material would be practically nontoxic to invertebrates and fish (LC50 or EC50 > 100 mg/L).

ICL Performance Products LP has not conducted biodegradation studies with this product since when dissolved/hydrolyzed in water it yields completely mineralized materials.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT

Not regulated for transportation

Canadian TDG

Not regulated for transportation

15. REGULATORY INFORMATION

TSCA Inventory: Listed
DSL Inventory: Listed
WHMIS Classification: D2(B) Materials causing other toxic effects

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Immediate
Section 302 Extremely Hazardous Substances: Not Applicable
Section 313 Toxic Chemical(s): Not Applicable

CERCLA Reportable Quantity: Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

16. OTHER INFORMATION

ICL Performance Products LP Material Safety Data Sheet

Material: Katch® 900

Page 6 of 6

Reference No.: AST10013

May 2, 2006

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	1	0	0	
Suggested HMIS Rating	1	0	0	E

Reason for revision: Revised sections 8 + 11. Supersedes MSDS dated: April 20, 2006
Product Use: Food Ingredient

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, ICL Performance Products LP makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ICL Performance Products LP be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS

AST10013.2420.doc